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APRIL 23, 2002.

Client No.:	24727-801E (SLS:RHT/mo'n)
Enclosures:	TRANSMITTAL LETTER (in duplicate); INFORMATION DISCLOSURE STATEMENT; FORM PTO-1449 (8 PAGES); AND RETURN POSTCARD
Applicant(s):	LaPOINTE, ET AL.
Serial No.:	10/043,356
Filed:	JANUARY 11, 2002
For:	METHOD FOR SELECTING MEDICAL AND BIOCHEMICAL DIAGNOSTIC TESTS USING NEURAL NETWORK-RELATED APPLICATIONS

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PATENT & TRADEMARK

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: LaPointe *et al.*
Serial No.: 10/043,356
Filed: January 11, 2002

For: *METHOD FOR SELECTING MEDICAL AND BIOCHEMICAL DIAGNOSTIC TESTS USING NEURAL NETWORK-RELATED APPLICATIONS*

Art Unit: Unassigned
Examiner: Unassigned

I hereby certify that this paper and the attached papers are being deposited with the United States Postal Service as first class mail in an envelope addressed to:

U.S. Patent and Trademark Office
P.O. Box 2327
Arlington, VA 22202, on this date.

04/23/02
Date

Maritza O'Neil

TRANSMITTAL LETTER

Commissioner for Patents
Arlington, VA 22202

Dear Sir:

Transmitted herewith are an Information Disclosure Statement and Forms PTO-1449 (8 Pages) for filing in connection with the above-identified application. Because this Information Disclosure Statement is filed prior to receipt of a First Office Action on the merits in the above-referenced application, no fee is due. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 50-1213, as stated below:

[X] The Commissioner is hereby authorized to charge any fee, including any submitted herewith if the attached check(s) is in the wrong amount or otherwise improper or missing, that may be due in connection with this and the attached papers, or with this application during its entire pendency to or to credit any overpayment to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted,
HELLER EHRMAN WHITE & McAULIFFE LLP

By:

Stephanie Seidman
Registration No. 33,779

Attorney Docket No. 24727-801F
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: LaPointe *et al.*
Serial No.:   10/043,356
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For: *METHOD FOR SELECTING*
              MEDICAL AND BIOCHEMICAL
              DIAGNOSTIC TESTS USING
              NEURAL NETWORK-RELATED
              APPLICATIONS

Art Unit: Unassigned
Examiner: Unassigned

INFORMATION DISCLOSURE STATEMENT IN ACCORDANCE WITH 37 C.F.R. §§ 1.97-1.98

Commissioner for Patents
Arlington, VA 22202

Dear Sir:

Since this Information Disclosure Statement is filed before the receipt of a first Office Action on the merits for the above-captioned application, no filing fee is due. If it is determined that a fee is due, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. The Forms PTO-1449 (8 pages) are provided herewith. In accordance with 37 C.F.R. §1.98(d), copies of the references marked with an asterisk are __not__ provided herewith, as they have been previously provided in connection with application U.S. Serial Nos. 08/912,133; 08/798,306; and 08/599,275 which are relied upon for an earlier filing date in accordance with 35 U.S.C. §120.

The documents listed on the Forms PTO-1449 are in the English language. Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Applicant also makes known to the Examiner the following co-pending U.S. and International applications that have one or more common inventors and/or one or more common owners:
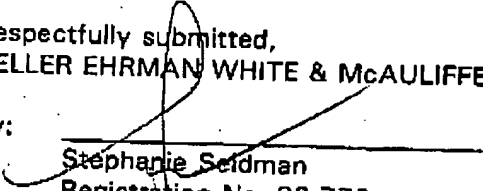
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U.S.S.N. 10/043,356
LaPointe *et al.*
Information Disclosure Statement

U.S.S.N.	Filing Date	Docket No.
08/912,133	08/14/97	801C
09/134,636	08/14/98	801D
09/063,497	04/20/98	813B
09/717,478	11/20/00	813C
09/717,355	11/20/00	813D
09/149,183	09/08/98	2101E

Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and information and that they be made of record in the file history of the above-captioned application.

Respectfully submitted,
HELLER EHRMAN WHITE & McAULIFFE LLP

By:

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Registration No. 33,779

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FORM PTO-1-449 (Modified)	ATTY. DOCKET NO. 24727-801F	SERIAL NO. 10/043,356
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	**APPLICANT** LaPointe et al.	
	FILING DATE January 11, 2002	**GROUP** Unassigned

* References not enclosed

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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
*	A	5	2	4	1	6	2	0	11/31/93	Ruggiero	395	22	01/03/91
*	B	5	2	4	9	2	5	9	09/28/93	Harvey	395	13	05/28/92
*	C	5	2	5	1	6	2	6	10/12/93	Nickolls, et al.	607	14	07/22/92
*	D	5	3	0	1	6	8	1	04/12/94	DeBan, et al.	128	736	09/27/91
*	E	5	3	3	1	5	5	0	07/19/94	Stafford, et al.	364	413.2	02/11/93
*	F	5	4	7	3	5	3	7	12/05/95	Glazer, et al.	364	419.2	04/12/95
*	G	4	0	9	9	5	8	7	06/11/78	Kaufmann	177	210	10/14/76
*	H	4	8	7	4	9	6	3	10/17/89	Alspector	307	201	02/11/88
*	I	4	9	6	5	7	2	5	10/23/90	Rutenberg	364	413.1	04/08/88
*	J	5	0	9	6	8	3	0	03/17/92	Senyei et al.	436	65	09/15/88
*	K	5	1	8	5	2	7	0	02/09/93	Senyei et al.	436	510	12/12/88
*	L	5	2	2	3	4	4	0	06/29/93	Teng et al.	436	510	11/18/88
*	M	5	2	3	6	8	4	6	08/17/93	Senyei et al.	436	65	07/18/91
*	N	5	2	8	1	5	2	2	01/25/94	Senyei et al.	435	7.9	12/14/90
*	O	5	4	0	5	3	6	2	04/11/95	Kramer et al.	607	5	12/20/93
*	P	5	4	6	3	5	4	8	10/31/95	Asada et al.	364	413.02	04/28/93
*	Q	5	4	6	8	6	1	9	11/21/95	Senyei et al.	435	7.94	05/12/93
*	R	5	4	9	1	6	2	7	02/13/96	Zhang et al.	364	413.2	05/13/93
*	S	5	5	0	3	1	6	1	04/02/96	Van Den Heuvel	128	773	10/25/93
*	T	5	5	1	6	7	0	2	05/14/96	Senyei et al.	436	510	06/29/94
*	U	5	5	3	3	5	1	9	07/09/96	Radke et al.	128	777	05/09/95
*	V	5	5	6	0	3	7	0	10/01/96	Ver"lar et al.	128	705	05/26/95
*	W	5	5	6	5	3	6	4	10/15/96	Schaefer et al.	436	43	02/22/95
*	X	5	5	9	4	6	3	7	01/14/97	Eisenberg et al.	395	202	05/26/93

EXAMINER	DATE CONSIDERED

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FORM PTO-1449 (Modified)

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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
*	Y	5	1	5	7	7	3	3	10/20/92	Takeo et al.	382	6	06/07/91
*	Z	5	2	9	9	2	8	4	03/29/94	Roy	395	22	04/09/97
*	AA	5	3	0	4	4	6	8	4/19/94	Phillips et al.	435	14	01/26/93
*	AB	5	3	2	1	4	9	2	06/14/94	Datwiler et al.	356	73	08/07/92
*	AC	5	3	9	2	4	0	3	02/21/95	Kaufmann	395	275	04/23/92
*	AD	5	4	5	5	8	9	0	10/03/95	Wang	395	22	
*	AE	5	5	9	0	6	6	5	01/07/97	Kanai	128	898	11/10/94
*	AF	5	6	2	2	1	7	1	04/22/97	Asada et al.	364	413.01	04/14/95
*	AG	5	6	2	7	9	0	7	05/06/97	Gur et al.	382	128	05/06/97
*	AH	5	6	8	7	7	1	6	11/18/97	Kaufman et al.	128	630	11/15/95

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation
*	AI	0	3	8	7	6	3	0	09/19/90	EP	–	--	
*	AJ	0	5	5	7	8	3	1	09/01/93	EP	–	--	X**
*	AK	0	6	1	6	2	9	1	01/02/94	EP A2	--	--	
*	AL	0	6	1	0	8	0	5	03/02/94	EP A2	--	–	
*	AM	0	6	4	4	4	1	4	03/22/95	EP A2	–	--	
*	AN	9	4	2	5	9	3	3	11/10/94	PCT	–	--	
*	AO	9	6	1	2	1	8	7	4/25/96	PCT	–	--	
*	AP	9	7	0	5	5	5	3	2/13/97	PCT	–	–	
*	AQ	9	7	0	9	6	7	8	3/13/97	PCT	–	–	
*	AR	9	7	1	7	8	9	1	5/22/97	PCT			
*	AS	9	7	3	0	9	9	6	8/28/97	PCT	–	–	X***

** Derwent English language abstract and/or English translation provided.
*** English Abstract included

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FORM PTO-1449 (Modified)

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ATTY. DOCKET NO. 24727-801F	SERIAL NO. 10/043,356
APPLICANT LaPointe et al.	
FILING DATE January 11, 2002	GROUP Unassigned

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*	AT	Alvager, et al., "The use of artificial neural networks in biomedical technologies: An introduction", Biomedical Instrumentation and Technology pp. 315-322 (1994).
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*	AV	"Artificial Intelligence systems in routine clinical use", (available on http://www.gretmar.com/ailist/list.html).
*	AW	Baxt, "Use of an artificial neural network for data analysis in clinical decision-making: The diagnosis of acute coronary occlusion", Neural Computation, 2:480-489 (1990).
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*	BC	Baxt, "Bootstrapping confidence intervals for clinical input variable effects in a network trained to indentify the presence of acute myocardial infarction", Neural Computation, 7:624-638 (1995).
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*	BH	Brickley, *et al.*, "Performance of a neural network trained to make third-molar treatment-planning decisions", Medical Decision Making 16:153-160 (1996).
*	BI	Brown, *et al.*, Finite training sample size effects on neural network pattern classification in low-dimensional feature space", pp. 96-101.
*	BJ	Burke, *et al.*, "Artificial neural networks for outcome prediction in cancer", pp. 53-56.
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*	BL	Creasy and Resnik, Maternal-fetal medicine: Principles and practice, Ch 36, Sec. 18, p. 657, 1989.
*	BM	Davis, *et al.*, "Production systems as a representation for a knowledge based consultation program", Artificial Intelligence 8:15-45 (1977).
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*		BU	Gorzalczany, An idea of the application of fuzzy neural networks to medical decision support systems, Proceedings of the IEEE International Symposium on Industrial Electronics 1:398-403 (1996).
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*		BY	Kim *et al.*, Ensemble competitive learning neural networks with reduced input dimension, Intl. J. of Neural Systems 6(2):133-142, 1995.
*		BZ	Kol, *et al.*, "Interpretation of nonstress tests by artificial neural network", American Journal of Obstetrics and Gynecology 172:1372-1379 (1995).
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*		CE	Micheli-Tzanakou *et al.*, Myocardial infarction: diagnosis and vital status prediction using neural networks, Computers in Cardiology pgs. 229-232 (1993).
*		CF	Mobley, *et al.*, "Artificial neural network predictions of lengths of stay on a post coronary care unit", Heart and Lung 24:251-256 (1995).
*		CG	Modai, *et al.*, "Clinical decisions for psychiatric inpatients and their evaluation by trained neural networks", Methods of Information in Medicine 32:396-399 (1993).

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*	CL	Neural Networks & intelligent systems newsletter, Derwent Direct, Issue 3, (August, 1995).
*	CM	NTIS Published Search - "Neural networks: Applications" (September 1986-present).
*	CN	Ota and Maki, "Evaluation of autoantibody and CA125 in the diagnosis of endometriosis or adenomyosis", Medicinal Research Reviews 18(8):309 (1990).
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*	CP	P.E. Keller, "Artificial neural networks in medicine", Handout/Technology brief, Pacific Northwest Laboratory.
*	CQ	Penny, *et al.*, "Neural networks in Clinical Medicine", Medical Decision Making 16:386-398 (1996).
*	CR	Plate, "Re: neural nets", (available at http://www.gsf.de/msr/sift/msg00649.html on 11/21/96).
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*	CU	Ruck, *et al.*, "Feature selection in feed-forward neural networks", Neural Networks Computing 20:40-48 (1990).
*	CV	Rutledge, "An overview of medical decision-support systems", (available at http://www.medg.lcs.mit.edu/BIRT/absgeoff.htm on 11/21/96).

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* References not enclosed

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*	CY	Siganos, "Neural networks in medicine", (available at http://scorch.doc.ic.ac.uk/~nd/suprise_98/journal/vol2/ds12/article2.html on 11/21/96).
*	CZ	Snow, et al., "Artificial neural networks in the diagnosis and prognosis of prostate cancer: A pilot study", The Journal of Urology, 152:1923-1926 (1994).
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*	DB	Stamey, "ProstAsure™: An information resource", (available at http://www.labcorp.com/prost3.htm on 11/21/96).
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*	DJ	Wenskay, "Neural networks: a prescription for effective protection", The Computer Lawyer 8:12-23 (1991).

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.).

*	DK	Widman, "Expert systems in medicine", (available on http://amplatz.uokhsc.edu/acc95-expert-systems.html on 11/21/96).
*	DL	Wilding, et al., "Application of Backpropogation neural networks to diagnosis of breast and ovarian cancer", *Cancer Letters* 77:145-153.
*	DM	Wong et al., Fuzzy neural systems for decision making, *IEEE International Joint Conference on Neural Networks* 2:1625-1637 (1991).
*	DN	Young, "Diagnosis of acute cardiac ischemia", (available on http://www.library.ucs...1/Originals/young.html on 11/21/96).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.